

APR 23 2003

TECH CENTER



#26 1221600

11/19/03

DATE: 04/17/2003

TIME: 08:48:15

Output Set: N:\CRF4\04172003\I699679A.raw

Use

```

3 <110> APPLICANT: Unger, Evan C.
4 Shen, Dekang
5 Wu, Guanli
7 <120> TITLE OF INVENTION: Novel Targeted Compositions For Diagnostics And Therapeutic
.
9 <130> FILE REFERENCE: UNGR1598
11 <140> CURRENT APPLICATION NUMBER: 09/699,679A
12 <141> CURRENT FILING DATE: 2000-10-30
14 <150> PRIOR APPLICATION NUMBER: 09/218,660
15 <151> PRIOR FILING DATE: 1998-12-22
17 <150> PRIOR APPLICATION NUMBER: 08/660,032
18 <151> PRIOR FILING DATE: 1996-06-06
20 <150> PRIOR APPLICATION NUMBER: 08/640,464
21 <151> PRIOR FILING DATE: 1996-05-01
23 <150> PRIOR APPLICATION NUMBER: 08/497,684
24 <151> PRIOR FILING DATE: 1995-06-07
26 <160> NUMBER OF SEQ ID NOS: 24
28 <170> SOFTWARE: PatentIn version 3.2
30 <210> SEQ ID NO: 1
31 <211> LENGTH: 6
32 <212> TYPE: PRT
33 <213> ORGANISM: Artificial Sequence
35 <220> FEATURE:
36 <223> OTHER INFORMATION: Synthetic construct
38 <400> SEQUENCE: 1
40 Lys Gln Ala Gly Asp Val
41 1 5
44 <210> SEQ ID NO: 2
45 <211> LENGTH: 4
46 <212> TYPE: PRT
47 <213> ORGANISM: Artificial Sequence
49 <220> FEATURE:
50 <223> OTHER INFORMATION: Synthetic construct
52 <400> SEQUENCE: 2
54 Arg Gly Asp Ser
55 1
58 <210> SEQ ID NO: 3
59 <211> LENGTH: 6
60 <212> TYPE: PRT
61 <213> ORGANISM: Artificial Sequence
63 <220> FEATURE:
64 <223> OTHER INFORMATION: Synthetic construct
66 <400> SEQUENCE: 3
68 Gly Arg Gly Asp Ser Pro

```

ENTERED

## RAW SEQUENCE LISTING

DATE: 04/17/2003

PATENT APPLICATION: US/09/699,679A

TIME: 08:48:15

Input Set : A:\UNGR1598.ST25.txt

Output Set: N:\CRF4\04172003\I699679A.raw

```

69 1          5
72 <210> SEQ ID NO: 4
73 <211> LENGTH: 4
74 <212> TYPE: PRT
75 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: Synthetic construct
80 <400> SEQUENCE: 4
82 Gly Pro Arg Pro
83 1
86 <210> SEQ ID NO: 5
87 <211> LENGTH: 159
88 <212> TYPE: PRT
89 <213> ORGANISM: Artificial Sequence
91 <220> FEATURE:
92 <223> OTHER INFORMATION: Synthetic construct
94 <400> SEQUENCE: 5
96 Asn Lys Leu Ile Val Arg Arg Gly Gln Ser Phe Tyr Val Gln Ile Asp
97 1          5          10          15
100 Phe Ser Arg Pro Tyr Asp Pro Arg Arg Asp Leu Phe Arg Val Glu Tyr
101          20          25          30
104 Val Ile Gly Arg Tyr Pro Gln Glu Asn Lys Gly Thr Tyr Ile Pro Val
105          35          40          45
108 Pro Ile Val Ser Glu Leu Gln Ser Gly Lys Trp Gly Ala Lys Ile Val
109          50          55          60
112 Met Arg Glu Asp Arg Ser Val Arg Leu Ser Ile Gln Ser Ser Pro Lys
113 65          70          75          80
116 Cys Ile Val Gly Lys Phe Arg Met Tyr Val Ala Val Trp Thr Pro Tyr
117          85          90          95
120 Gly Val Leu Arg Thr Ser Arg Asn Pro Glu Thr Asp Thr Tyr Ile Leu
121          100          105          110
124 Phe Asn Pro Trp Cys Glu Asp Asp Ala Val Tyr Leu Asp Asn Glu Lys
125          115          120          125
128 Glu Arg Glu Glu Tyr Val Leu Asn Asp Ile Gly Val Ile Phe Tyr Gly
129          130          135          140
132 Glu Val Asn Asp Ile Lys Thr Arg Ser Trp Ser Tyr Gly Gln Phe
133 145          150          155
136 <210> SEQ ID NO: 6
137 <211> LENGTH: 25
138 <212> TYPE: PRT
139 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
142 <223> OTHER INFORMATION: Synthetic construct
144 <400> SEQUENCE: 6
146 Asn Lys Leu Ile Val Arg Arg Gly Ser Phe Tyr Val Gln Ile Asp Phe
147 1          5          10          15
150 Ser Arg Pro Tyr Asp Pro Arg Arg Asp
151          20          25
154 <210> SEQ ID NO: 7

```

## RAW SEQUENCE LISTING

DATE: 04/17/2003

PATENT APPLICATION: US/09/699,679A

TIME: 08:48:16

Input Set : A:\UNGR1598.ST25.txt

Output Set: N:\CRF4\04172003\I699679A.raw

```

155 <211> LENGTH: 41
156 <212> TYPE: PRT
157 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: Synthetic construct
162 <400> SEQUENCE: 7
164 Asp Asp Ala Val Tyr Leu Asp Asn Glu Lys Glu Arg Glu Glu Tyr Val
165 1          5          10          15
168 Leu Asn Asp Ile Gly Val Ile Phe Tyr Gly Glu Val Asn Asp Ile Lys
169          20          25          30
172 Thr Arg Ser Trp Ser Tyr Gly Gln Phe
173          35          40
176 <210> SEQ ID NO: 8
177 <211> LENGTH: 9
178 <212> TYPE: PRT
179 <213> ORGANISM: Artificial Sequence
181 <220> FEATURE:
182 <223> OTHER INFORMATION: Synthetic construct
184 <400> SEQUENCE: 8
186 Ala Arg Arg Ser Ser Pro Ser Tyr Tyr
187 1          5
190 <210> SEQ ID NO: 9
191 <211> LENGTH: 10
192 <212> TYPE: PRT
193 <213> ORGANISM: Artificial Sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: Synthetic construct
198 <400> SEQUENCE: 9
200 Gly Ala Gly Pro Tyr Tyr Ala Met Asp Tyr
201 1          5          10
-----
204 <210> SEQ ID NO: 10
205 <211> LENGTH: 19
206 <212> TYPE: PRT
207 <213> ORGANISM: Artificial Sequence
209 <220> FEATURE:
210 <223> OTHER INFORMATION: Synthetic construct
212 <400> SEQUENCE: 10
214 Arg Ser Pro Ser Tyr Tyr Arg Tyr Asp Gly Ala Gly Pro Tyr Tyr Ala
215 1          5          10          15
218 Met Asp Tyr
222 <210> SEQ ID NO: 11
223 <211> LENGTH: 21
224 <212> TYPE: PRT
225 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Synthetic construct
230 <400> SEQUENCE: 11
232 Ala Arg Arg Ser Pro Ser Tyr Tyr Arg Tyr Asp Gly Ala Gly Pro Tyr
233 1          5          10          15

```

## RAW SEQUENCE LISTING

DATE: 04/17/2003

PATENT APPLICATION: US/09/699,679A

TIME: 08:48:16

Input Set : A:\UNGR1598.ST25.txt

Output Set: N:\CRF4\04172003\I699679A.raw

```

236 Tyr Ala Met Asp Tyr
237                20
240 <210> SEQ ID NO: 12
241 <211> LENGTH: 67
242 <212> TYPE: PRT
243 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: Synthetic construct
248 <400> SEQUENCE: 12
250 Gly Glu Glu Cys Asp Cys Gly Ser Pro Glu Asn Pro Cys Cys Asp Ala
251 1      .      5      10      15
254 Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Ala Asp Gly Leu Cys
255      20      25      30
258 Cys Asp Gln Cys Arg Phe Lys Arg Thr Ile Cys Arg Arg Ala Arg Gly
259      35      40      45
262 Asp Asn Pro Asp Asp Arg Cys Thr Gly Gln Ser Ala Asp Cys Pro Arg
263      50      55      60
266 Asn Gly Tyr
267 65
270 <210> SEQ ID NO: 13
271 <211> LENGTH: 73
272 <212> TYPE: PRT
273 <213> ORGANISM: Artificial Sequence
275 <220> FEATURE:
276 <223> OTHER INFORMATION: Synthetic construct
278 <400> SEQUENCE: 13
280 Glu Ala Gly Glu Asp Cys Asp Cys Gly Ser Pro Ala Asn Pro Cys Cys
281 1      .      5      10      15
284 Asp Ala Ala Thr Cys Lys Leu Leu Pro Gly Ala Gln Cys Gly Glu Gly
285      20      25      30
288 Leu Cys Cys Asp Gln Cys Ser Phe Met Lys Lys Gly Thr Ile Cys Arg
289      35      40      45
292 Arg Ala Arg Gly Asp Asp Leu Asp Asp Tyr Cys Asn Gly Ile Ser Ala
293      50      55      60
296 Gly Cys Pro Arg Asn Pro Leu His Ala
297 65      70
300 <210> SEQ ID NO: 14
301 <211> LENGTH: 68
302 <212> TYPE: PRT
303 <213> ORGANISM: Artificial Sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: Synthetic construct
308 <400> SEQUENCE: 14
310 Glu Ala Gly Glu Glu Cys Asp Cys Gly Thr Pro Glu Asn Pro Cys Cys
311 1      .      5      10      15
314 Asp Ala Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Ala Glu Gly
315      20      25      30
318 Leu Cys Cys Asp Gln Cys Arg Phe Lys Gly Ala Gly Lys Ile Cys Arg
319      35      40      45

```

## RAW SEQUENCE LISTING

DATE: 04/17/2003

PATENT APPLICATION: US/09/699,679A

TIME: 08:48:16

Input Set : A:\UNGR1598.ST25.txt

Output Set: N:\CRF4\04172003\I699679A.raw

```

322 Arg Ala Arg Gly Asp Asn Pro Asp Asp Cys Thr Gly Gln Ser Ala Asp
323      50                      55                      60
326 Cys Pro Arg Phe
327 65
330 <210> SEQ ID NO: 15
331 <211> LENGTH: 67
332 <212> TYPE: PRT
333 <213> ORGANISM: Artificial Sequence
335 <220> FEATURE:
336 <223> OTHER INFORMATION: Synthetic construct
338 <400> SEQUENCE: 15
340 Gly Gly Glu Cys Asp Cys Gly Ser Pro Glu Asn Pro Cys Cys Asp Ala
341 1      5                      10                      15
344 Ala Thr Cys Lys Leu Arg Pro Gly Ala Gln Cys Ala Asp Gly Leu Cys
345      20                      25                      30
348 Cys Asp Gln Cys Arg Phe Lys Arg Thr Ile Cys Arg Ile Ala Arg Gly
349      35                      40                      45
352 Asp Phe Pro Asp Asp Arg Cys Thr Gly Leu Ser Ala Asp Cys Pro Arg
353      50                      55                      60
356 Asn Asp Leu
357 65
360 <210> SEQ ID NO: 16
361 <211> LENGTH: 8
362 <212> TYPE: PRT
363 <213> ORGANISM: Artificial Sequence
365 <220> FEATURE:
366 <223> OTHER INFORMATION: Synthetic construct
368 <400> SEQUENCE: 16
370 Arg Glu Tyr Val Val Met Trp Lys
371 1      5
374 <210> SEQ ID NO: 17
375 <211> LENGTH: 8
376 <212> TYPE: PRT
377 <213> ORGANISM: Artificial Sequence
379 <220> FEATURE:
380 <223> OTHER INFORMATION: Synthetic construct
382 <400> SEQUENCE: 17
384 Cys Arg Gly Asp Met Phe Gly Cys
385 1      5
388 <210> SEQ ID NO: 18
389 <211> LENGTH: 8
390 <212> TYPE: PRT
391 <213> ORGANISM: Artificial Sequence
393 <220> FEATURE:
394 <223> OTHER INFORMATION: Synthetic construct
396 <400> SEQUENCE: 18
398 Cys Arg Gly Asp Met Leu Arg Cys
399 1      5
402 <210> SEQ ID NO: 19

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/699,679A

DATE: 04/17/2003  
TIME: 08:48:17

Input Set : A:\UNGR1598.ST25.txt  
Output Set: N:\CRF4\04172003\I699679A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:22; Xaa Pos. 5